

## Assoc. Prof. ÖZLEM VARLIKLAR

### Personal Information

**Office Phone:** [+90 232 301 7426](tel:+902323017426)

**Email:** [aktas.ozlem@deu.edu.tr](mailto:aktas.ozlem@deu.edu.tr)

**Other Email:** [ozlem@cs.deu.edu.tr](mailto:ozlem@cs.deu.edu.tr)

**Web:** <https://avesis.deu.edu.tr/aktas.ozlem>

### International Researcher IDs

ScholarID: LRF8cVUAAAAJ

ORCID: 0000-0001-6415-0698

Publons / Web Of Science ResearcherID: P-2441-2019

ScopusID: 16240676300

Yoksis Researcher ID: 9595

### Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), Turkey 2005 - 2010

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2003 - 2005

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 1999 - 2003

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Rule-based natural language processing methods for Turkish, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), 2010

Postgraduate, Development of a method to determine root and suffixes for Turkish words to generate large scale Turkish corpus, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2005

### Research Areas

Database and Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition, Software

### Academic Titles / Tasks

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011 - Continues

Lecturer, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2009 - 2011

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2004 - 2009

### Academic and Administrative Experience

Assistant Manager of Research and Application Center, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2023 - Continues

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2012 - 2018

Deputy Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2013 - 2014

## Courses

INTRODUCTION TO ARTIFICIAL INTELLIGENCE, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2010 - 2011

M.SC. RESEARCH, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

INTRODUCTION TO NATURAL LANGUAGE PROCESSING, Undergraduate, 2019 - 2020, 2016 - 2017, 2015 - 2016

SENIOR PROJECT, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2010 - 2011

M.SC. THESIS, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

M.SC. SEMINAR, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014

PH.D. RESEARCH, Doctorate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

PROJECT BASED LEARNING I, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2010 - 2011

ARTİFİCİAL İNTELLİGENCE, Postgraduate, 2019 - 2020, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

COMPUTER ENGINEERING DESIGN, Undergraduate, 2019 - 2020, 2017 - 2018

PROJECT BASED LEARNING II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2010 - 2011

PH.D. THESIS, Doctorate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

ARTİFİCİAL İNTELLİGENCE, Doctorate, 2018 - 2019

SENIOR PROJECT PROPOSAL, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

COMPUTER NETWORKS, Undergraduate, 2015 - 2016, 2013 - 2014, 2011 - 2012, 2010 - 2011

METHODS OF ARTIFICIAL INTELLIGENCE, Undergraduate, 2014 - 2015, 2013 - 2014

DESIGN AND IMPLEMENTATION OF INFORMATION SYSTEMS, Undergraduate, 2014 - 2015

VERİ TABANI UYGULAMA GELİŞTİRME, Associate Degree, 2010 - 2011

BİLGİSAYAR PROGRAMLAMA, Undergraduate, 2010 - 2011

ADVANCES IN WEB TECHNOLOGIES, Undergraduate, 2010 - 2011

CSE3004 Software Engineering, Undergraduate, 2009 - 2010

CSE3003 Operating Systems, Undergraduate, 2008 - 2009

## Advising Theses

Aktaş Ö., Algorithmic learning of clinically acceptable levels of laboratory test results from electronic medical records: Personalized reference intervals, Doctorate, O.YILDIRIM(Student), 2023

Aktaş Ö., Classification of the Effects of Natural Disasters on Structures Through Social Media Posts with Machine Learning Methods, Postgraduate, U.SÜSOY(Student), 2023

Aktaş Ö., Türkçe için doğal dil anlamada anlatım bozukluklarının tespiti için yeni bir yaklaşım geliştirilmesi, Doctorate, A.SUNCAK(Student), 2022

AKTAŞ Ö., Web uygulamalarında performans değerlendirmesi ve artırılması, Postgraduate, O.DAVUT(Student), 2021

AKTAŞ Ö., Türkçe sosyal ortam verileri için makine öğrenme yöntemlerinin geliştirilmesi, Doctorate, B.ERŞAHİN(Student), 2021

AKTAŞ Ö., Yapay sinir ağları ile YEKDEM birim fiyat tahminlemesi, Postgraduate, A.ERTAYLAN(Student), 2021

AKTAŞ Ö., Ontolojik sensor verileri üzerine Türkiye için akıllı yönetim sistemi oluşturma, Doctorate, M.MİLLİ(Student),

2021

AKTAŞ Ö., Tıbbi tedavi verilerinden sebep sonuç ilişkilerinin makina öğrenim yöntemleri ile belirlenmesi, Doctorate, M.ABEBE(Student), 2021

Aktaş Ö., Doğal dil işleme kullanımı ile nesne tabanlı analiz ve kaynak kod değerlendirme, Doctorate, F.BOZYİÇİT(Student), 2019

AKTAŞ Ö., Cas9 sistemi için mikroRNA hedef tahmini, Postgraduate, E.DOĞAN(Student), 2019

AKTAŞ Ö., Lise öğrencileri için ders notlarından otomatik test oluşturma ve değerlendirme aracı, Postgraduate, Ö.CAN(Student), 2019

AKTAŞ Ö., Çağrışım yapan kelimeler arasındaki ilişkilerin onayının otomatikleştirilmesini sağlayacak yöntem geliştirme, Postgraduate, A.SUNCAK(Student), 2016

AKTAŞ Ö., Kodlardaki kötü kokuların algoritma analizi kullanılarak tespit edilmesi, Postgraduate, A.GÜZEL(Student), 2016

AKTAŞ Ö., Türkçe için e-öğrenme ortamlarında Ontoloji tabanlı Öneri Sistemi, Postgraduate, M.MİLLİ(Student), 2016

AKTAŞ Ö., Windows Phone 8 geliştirmesi için dinamik kullanıcı kontrol kütüphanesi oluşturma, Postgraduate,

İ.SATMAZ(Student), 2015

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, December, 2023

Doctoral Examination, Doctoral Examination, Dokuz Eylül Üniversitesi, July, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, July, 2023

Doctoral Examination, Doctoral Examination, Dokuz Eylül Üniversitesi, July, 2023

Doctoral Examination, Doctoral Examination, Dokuz Eylül Üniversitesi, July, 2023

Doctoral Examination, Doctoral Examination, Dokuz Eylül Üniversitesi, July, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ege Üniversitesi, June, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, June, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, June, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, June, 2023

Doctorate, Doctorate, Dokuz Eylül Üniversitesi, February, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, February, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, February, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2023

Doctorate, Doctorate, Dokuz Eylül Üniversitesi, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, February, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Establishing Cause-Effect Relationships from Medical Treatment Data in Intensive Care Unit Settings**  
Yimer M. A., Aktaş Ö., Sevinç S., Şişman A.  
INTERNATIONAL ARAB JOURNAL OF INFORMATION TECHNOLOGY, vol.20, no.05, pp.693-701, 2023 (SCI-Expanded)
- II. **Balanced K-Star: An Explainable Machine Learning Method for Internet-of-Things-Enabled Predictive Maintenance in Manufacturing**  
Ghasemkhani B., AKTAŞ Ö., BİRANT D.  
MACHINES, vol.11, no.3, 2023 (SCI-Expanded)
- III. **New hybrid segmentation algorithm: UNet-GOA**  
Yousefi T., AKTAŞ Ö.  
PeerJ Computer Science, vol.9, 2023 (SCI-Expanded)
- IV. **Linking software requirements and conceptual models: A systematic literature review**  
Bozyigit F., Aktaş Ö., Kılınç D.  
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.24, no.1, pp.71-82, 2021 (SCI-Expanded)
- V. **Modelling sensor ontology with the SOSA/SSN frameworks: a case study for laboratory parameters**  
AKTAŞ Ö., Milli M., Lakestani S., Milli M.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.5, pp.2566-2585, 2020 (SCI-Expanded)
- VI. **Automatic concept identification of software requirements in Turkish**  
Bozyigit F., Aktaş Ö., Kılınç D.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.1, pp.453-470, 2019 (SCI-Expanded)
- VII. **A hybrid sentiment analysis method for Turkish**  
Ersahin B., Aktaş Ö., Kılınç D., Ersahin M.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.3, pp.1780-1793, 2019 (SCI-Expanded)
- VIII. **Automated synonym dictionary generation tool for Turkish (ASDICT) Türkçe için otomatik esanlamlılar sözlüğü oluşturma Aracı (ASDICT)**  
Aktaş Ö., Birant Ç. C., Aksu B., Çebi Y.  
Bilig, vol.65, pp.47-68, 2013 (SSCI)

## Articles Published in Other Journals

- I. **SOSA/SSN sensör ontoloji çerçevelerini kullanarak laboratuvar ortamlarında semantik tabanlı anomali tespiti**  
Milli M., Milli M., Lakestani S., Aktaş Ö.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.29, no.4, pp.357-369, 2023 (ESCI)
- II. **Classification Of The Effects Of Natural Disasters On Structures Through Social Media Posts With Machine Learning Methods**  
Süsoy U., Aktaş Ö.  
INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS, vol.11, no.5, pp.100-108, 2023 (Peer-Reviewed Journal)
- III. **An Example of Application of Machine Learning Method to Laboratory Medicine: Determination of Newborn Reference Ranges**  
YILDIRIM O., AKTAŞ Ö., ŞİŞMAN A., Orbatu D., ALKAN ÖZDEMİR S., AYDIN A., Yaşar E., Yimer M. A., Sevinç S.  
Forbes tıp dergisi (Online), vol.4, pp.95-102, 2023 (Peer-Reviewed Journal)
- IV. **Detecting Defective Expressions in Turkish Sentences Using a Hybrid Deep Learning Method**  
Suncak A., Aktaş Ö.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.24, no.72, pp.825-834, 2022 (Peer-Reviewed Journal)
- V. **Turkish Sentiment Analysis Using Machine Learning Methods: Application on Online Food Order Site Reviews**  
Aktaş Ö., Coşkuner B., Soner İ.  
Journal of Artificial Intelligence and Data Science, vol.1, no.1, pp.1-10, 2021 (Peer-Reviewed Journal)
- VI. **A Novel Approach for Detecting Defective Expressions in Turkish**  
Suncak A., Aktaş Ö.  
Journal of Artificial Intelligence and Data Science (JAIDA), vol.1, no.1, pp.35-40, 2021 (Peer-Reviewed Journal)
- VII. **Monitoring Medical Interventions for Multidimensional Evaluation of Changes in Patient Test Results with Principal Component Analysis**  
Yimer M. A., Aktaş Ö., Sevinç S., Şişman A., Yıldırım O., Yaşar E.  
Balkan Journal of Electrical and Computer Engineering, vol.9, no.2, pp.178-186, 2021 (Peer-Reviewed Journal)
- VIII. **Market Clearing Price Prediction With Artificial Neural Networks**  
Ertaylan A., Aktaş Ö., Doğan Y.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.23, no.67, pp.93-105, 2021 (Peer-Reviewed Journal)
- IX. **Crispr/Cas9 Target Prediction with Deep Learning**  
Aktaş Ö., Doğan E., Ensari T.  
Biomedical Journal of Scientific Technical Research, vol.21, no.5, pp.16131-16135, 2019 (Peer-Reviewed Journal)
- X. **A NAMED ENTITY RECOGNITION MODEL FOR TURKISH LECTURE NOTES IN HISTORY AND GEOGRAPHY DOMAINS**  
Sarı Ö. C., Aktaş Ö.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.7, no.3, pp.539-551, 2019 (Peer-Reviewed Journal)
- XI. **Türkçe Ders Metinleri için Özelleştirilmiş bir Varlık İsmi Tanıma Yapısı**  
Sarı Ö. C., Aktaş Ö.  
Bilgisayar Bilimleri ve Mühendisliği Dergisi, vol.11, no.2, pp.52-68, 2018 (Peer-Reviewed Journal)
- XII. **Connotation: Educational Mobile Game Application For Turkish**  
Aktaş Ö., Birant Ç. C., Koşaner Ö., Suncak A.  
Marmara Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.29, no.2, pp.60-69, 2017 (Peer-Reviewed Journal)
- XIII. **AutoClass Automatic Text to OOP Concept Identification Model**  
BOZYİĞİT F., AKTAŞ Ö., KILINÇ D.  
International Journal of Computer Applications, vol.150, no.10, pp.29-34, 2016 (Peer-Reviewed Journal)
- XIV. **Automated Antonym Dictionary Generation Tool For Turkish AADICT**  
Birant Ç. C., Aktaş Ö., Koşaner Ö., Aksu B., Çebi Y.

Uluslararası Türkçe Eğitimi ve Öğretimi Dergisi: Kuram ve Uygulama, vol.1, no.2, pp.1-17, 2016 (Peer-Reviewed Journal)

XV. **A Survey on Bad Smells in Codes and Usage of Algorithm Analysis**

Güzel A., AKTAŞ Ö.

International Journal of Computer Science and Software Engineering (IJCSSE), vol.5, no.6, pp.114-118, 2016 (Peer-Reviewed Journal)

XVI. **Yapay Zeka ve Mimarlık**

Gülay Taşçı B., Aktaş Ö.

YAPI, no.413, pp.130-135, 2016 (Peer-Reviewed Journal)

XVII. **CREATING ONTOLOGY BASED CONCEPT MAPS WHICH CAN BE QUERIED IN COMPUTER ENVIROMENT**  
MİLLİ M., ÜNSAL E., AKTAŞ Ö.

The Online Journal of Science and Technology, vol.6, no.2, pp.30-37, 2016 (Peer-Reviewed Journal)

XVIII. **Peer Review in Software Development: A Survey**

Güzel A., AKTAŞ Ö., BİRANT K. U.

International Journal of Computer Science and Software Engineering, 2016 (Peer-Reviewed Journal)

XIX. **Rule-Based Sentence Detection Method (RBSDM) for Turkish**

Aktaş Ö., Çebi Y.

International Journal of Language and Linguistics, vol.1, no.1, pp.1-6, 2013 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Bölüm 29: Ağ Güvenliği**

Aktaş Ö.

in: Bilgisayar Ağları ve İnternet, Şamlı Rüya, Gürkaş Aydın Zeynep, Editor, Nobel Yayın Dağıtım, Ankara, pp.507-532, 2016

II. **Bölüm 30: Ağ Yönetimi (SNMP)**

Aktaş Ö.

in: Bilgisayar Ağları ve İnternet, Şamlı Rüya, Gürkaş Aydın Zeynep, Editor, Nobel Yayın Dağıtım, Ankara, pp.533-544, 2016

## Refereed Congress / Symposium Publications in Proceedings

I. **Model-driven Engineering of A Knowledge-base for Assembly Systems: An Architectural View**

Khalilipour A., Benito A., Decraemer B., De Cock A., Tekin Tezel B. T., Bozyigit F., Challenger M.

13th Mediterranean Conference on Embedded Computing, MECO 2024, Budva, Montenegro, 11 - 14 June 2024

II. **Portfolio Optimization with Multi-Objective Optimization Algorithms**

Yousefi T., Aktaş Ö.

4th International Conference on Engineering and Applied Natural Sciences (ICEANS2023), Konya, Turkey, 21 - 23 November 2023, pp.1-8

III. **OPTIMIZING HYPERPARAMETERS FOR ENHANCING PERFORMANCE IN NATURAL LANGUAGE UNDERSTANDING FOR TURKISH**

Suncak A., Aktaş Ö.

3rd International Natural Science, Engineering and Material Technologies Conference (NEM2023), Lefkoşa, Cyprus (Kkct), 21 - 23 September 2023, pp.1-8

IV. **Real-Time Earthquake Response Management: A Machine Learning Approach for Location Extraction from Turkish Tweets**

Gümüş İ. E., Aktaş Ö.

3. International Congress on Contemporary Scientific Research, Adana, Turkey, 7 - 08 August 2023, pp.540-544

V. **Solving the traveling salesman problem by adding a mutation approach to a grasshopper**

**optimization algorithm**

Yousefi T., Aktaş Ö.

1st International Conference on Engineering, Natural and Social Sciences, Konya, Turkey, 20 - 23 December 2022, pp.150

- VI. **Solving the traveling salesman problem by adding a mutation approach to a particle swarm optimization algorithm**  
Yousefi T., Aktaş Ö.  
15. International Scientific Research Congress (UBAK), Ankara, Turkey, 17 - 18 December 2022, pp.104
- VII. **Portfolio Optimization with Non-Dominated Sorting Genetic Algorithm-II**  
Yousefi T., Aktaş Ö.  
1st International Conference on Scientific and Academic Research (ICSAR), Konya, Turkey, 12 - 13 December 2022, pp.215
- VIII. **DETERMINATION OF NEONATAL REFERENCE RANGES USING MACHINE LEARNING METHOD**  
Yıldırım O., Aktaş Ö., Orbatu D., Alkan Özdemir S., Şişman A. R., Sevinç S.  
III. Uluslararası Sağlıkta Yapay Zeka Kongresi, İzmir, Turkey, 11 - 13 May 2022, pp.55-56
- IX. **An Early Warning System for Evaluating Effects of Medical Treatment using Machine Learning**  
Abebe Yimer M., AKTAŞ Ö., SEVİNÇ S.  
3rd International Conference on ICT for Development for Africa (ICT4DA), Ethiopia, 22 November 2021
- X. **Solution Methods For Defective Expressions In Turkish Sentences**  
SUNCAK A., AKTAŞ Ö.  
International Marmara Scientific Research and Innovation Congress 2021, İstanbul, Turkey, 21 August 2021, pp.457-464
- XI. **Web Uygulamalarının Performansını Değerlendirme ve Arttırma**  
Davut O., AKTAŞ Ö.  
IMAEC 2nd International Mathematic, Architecture and Engineering Conference, Roma, Italy, 05 June 2021, pp.13-21
- XII. **Development of a map server for Dokuz Eylül University**  
Yenal O. Ö., AKTAŞ Ö., BİRANT Ç. C.  
2nd International Eurasian Conference on Science, Engineering and Technology, Turkey, 07 October 2020, pp.77
- XIII. **Knowledge Management System for Semantic Sensor Data**  
Aktaş Ö., Milli M., Lakestani S., Milli M.  
28th Signal Processing and Communications Applications Conference, Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4
- XIV. **CRISPR/CAS9 Target Prediction with Deep Learning**  
AKTAŞ Ö., Dogan E., Ensari T.  
International Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science (EBBT), İstanbul, Turkey, 24 - 26 April 2019
- XV. **IMPROVING SOFTWARE DEVELOPMENT PROCESSES USING SEMANTIC WEB TECHNOLOGIES**  
MİLLİ M., ÜNSAL E., MİLLİ M., AKTAŞ Ö.  
International Conference on Innovative Engineering Applications, Sivas, Turkey, 20 - 22 September 2018, pp.1017-1024
- XVI. **Ontological Representation of Heterogeneous Sensor Data**  
Milli M., Aktaş Ö., Ünsal E., Gezgin D., Kahveci M., Baysarı K.  
International Conference on Innovative Engineering Applications, Sivas, Turkey, 20 - 22 September 2018, pp.988-996
- XVII. **Usage of Natural Language Processing Techniques in Software Engineering Practices**  
Bozyiğit F., Aktaş Ö., Kılınç D., Özçift A.  
INTERNATIONAL CONFERENCE ON ENGINEERING TECHNOLOGY AND INNOVATION, Budapest, Hungary, 7 - 11 March 2018, pp.51
- XVIII. **Investigating the Effect of Parallelism on a Spark-based Recommendation System**  
Özçift A., Kılınç D., Aktaş Ö., Bozyiğit F.

INTERNATIONAL CONFERENCE ON ENGINEERING TECHNOLOGY AND INNOVATION, Budapest, Hungary, 7 - 11 March 2018, pp.50

- XIX. **Automatic Calculation of Polarity Rates in Turkish Words**  
Suncak A., Aktaş Ö.  
International Conference on Engineering Technology and Innovation - II, Budapest, Hungary, 7 - 11 March 2018, pp.46
- XX. **An Evaluation Method Proposal for NLP-based Automatic Requirement to Code Transformation Systems**  
BOZYİĞİT F., AKTAŞ Ö., KILINÇ D.  
International Conference on Engineering Technologies, Konya, Turkey, 7 - 09 December 2017, pp.129-134
- XXI. **Natural Language Processing Techniques Used for an Automatized Test Generation Process for Turkish**  
SARI Ö. C., AKTAŞ Ö.  
10th International Conference of Education, Research and Innovation, Sevilla, Spain, 16 - 18 October 2017, pp.2443-2452
- XXII. **Twitter Fake Account Detection**  
Ersahin B., Aktaş Ö., Kılınç D., Akyol C.  
2017 International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 5 - 08 October 2017, pp.388-392
- XXIII. **Low cost Wireless Sensor Networks for Greenhouse Monitoring Applications**  
ÜNSAL E., MİLLİ M., AKTAŞ Ö., ÇEBİ Y.  
4th International Conference on Advanced Technology & Sciences 2016, ICAT 2016, Konya, Turkey, 23 - 25 November 2016, pp.69-74
- XXIV. **Türkçe Derlem Oluşturmada Otomasyon ve Karşılaşılan Zorluklar**  
ÇEBİ Y., AKTAŞ Ö., BİRANT Ç. C.  
VI. Türk Dünyası Ekonomi, Dil ve Bilişim İşbirliği Forumu, 5 - 10 May 2016
- XXV. **Yapılı Çevre Eğitimi için Mobil Oyun Yazılımı**  
Gülay Taşçı B., Aktaş Ö.  
VIII. Uluslararası Eğitim Araştırmaları Kongresi, Çanakkale, Turkey, 5 - 08 May 2016, pp.105
- XXVI. **Yapılı Çevre Eğitimi İçin Mobil Oyun Yazılımı**  
Gülay Taşçı B., Aktaş Ö.  
VIII. Uluslararası Eğitim Araştırmaları Kongresi, Çanakkale, Turkey, 5 - 08 May 2016, pp.105
- XXVII. **Creating Ontology Based Concept Maps which can be Queried in Computer Environment**  
MİLLİ M., ÜNSAL E., AKTAŞ Ö.  
International Science and Technology Conference 2015, Pietersburg, South Africa, 2 - 04 September 2015, pp.137-144
- XXVIII. **Automatic Confirmation of Connotation Words**  
SUNCAK A., AKTAŞ Ö., BİRANT Ç. C.  
WEI International Academic Conference on Education, Humanities and Social Sciences, Atina, Greece, 19 - 21 March 2015, pp.14-18
- XXIX. **Kodlardaki Kötü Kokuları Tespit Etme Yöntemleri ve Algoritma Analizi**  
Güzel A., AKTAŞ Ö.  
Akademik Bilişim 2015, Eskişehir, Turkey, 4 - 06 February 2015
- XXX. **Improving Turkish Language Training Materials: Grapheme-to- Phoneme Conversion for adding Phonemic Transcription into Dictionary Entries and Course Books**  
Koşaner Ö., Birant Ç. C., Aktaş Ö.  
13th International Educational Technology Conference, Taiping, Malaysia, 2 - 05 May 2013, vol.103, pp.473-484
- XXXI. **CAGRISIM CONNOTATION Developing Mobile Applications for Vocabulary Teaching**  
AKTAŞ Ö., KOŞANER Ö., BİRANT Ç. C.  
EDULEARN13-5th International Conference on Education and New Learning Technologies, Barselona, Spain, 1 - 03 July 2013, pp.1822-1827



- XXXII. **Türkçe için Bağlam İçinde Anahtar Sözcük Arama BİAS TR Programı**  
Aktaş Ö., Fidan Ö.  
III. Uluslararası Türkçenin Eğitimi - Öğretimi Kurultayı, İzmir, Turkey, 1 - 03 July 2010, pp.91
- XXXIII. **Türk Lehçeleri Arası Çeviri Altyapısı**  
ALKİM E., AKTAŞ Ö., ÇEBİ Y.  
2. Uluslararası Dünya Dili Türkçe Sempozyumu, 9 - 11 December 2009
- XXXIV. **Türkçe için Kural Tabanlı Otomatik Derlem Oluşturma Altyapısı**  
Aktaş Ö., Alkım E., Çebi Y.  
2. Uluslararası Dünya Dili Türkçe Sempozyumu, Ankara, Turkey, 9 - 11 December 2009
- XXXV. **Türkçe için Verimli Bir Cümle sonu Belirleme Yöntemi**  
AKTAŞ Ö.  
Akademik Bilişim 2006, Turkey, 2 - 04 February 2006
- XXXVI. **Raptor versus Reed Solomon Forward Error Correction codes**  
Demir U., Aktaş Ö.  
7th International Symposium on Computer Networks, İstanbul, Turkey, 16 - 18 June 2006, pp.264-266
- XXXVII. **Türkçe Derlem Oluşturmada Karşılaşılan Sorunlar ve Çözüm Önerileri**  
ÇEBİ Y., AKTAŞ Ö.  
V.Türk Dünyası Ekonomi ve Bilişim Forumu, 20 - 25 October 2005

## Supported Projects

- Özgen M., Birant Ç. C., Aktaş Ö., Project Supported by Higher Education Institutions, Syntax Tree Generator for Turkish, 2019 - 2022
- Aktaş Ö., Sarı Ö. C., Birant Ç. C., Project Supported by Higher Education Institutions, Automatic Test Generation and Evaluation Tool from Lecture Notes for High School Students, 2018 - 2019
- Çebi Y., Aktaş Ö., Çalapkulu A., Project Supported by Other Private Institutions, Developing a Framework for the Use of Text Mining and Natural Language Processing Studies in Crowdsourcing Projects, 2016 - 2017
- Çebi Y., Aktaş Ö., Fidan Ö., Koşaner Ö., TUBITAK Project, CONNOTATION - Educational Game for Developing Turkish and Individuals, 2013 - 2015
- Koşaner Ö., Özgen M., Aktaş Ö., Birant Ç. C., Project Supported by Higher Education Institutions, Türkçe için Otomatik Ontoloji Üretici Yazılım Projesi, 2013 - 2015
- VARLIKLAR Ö., Project Supported by Higher Education Institutions, TÜRKÇE İÇİN KURAL-TABANLI CÜMLE BELİRLEME ALGORİTMASININ MOBİL İŞLETİM SİSTEMLERİNDE UYGULANMASI VE PERFORMANS ANALİZİ, 2012 - 2013
- Aktaş Ö., Birant K. U., Project Supported by Higher Education Institutions, Yazılımda İhtiyaç Analizi Belirtimleme Raporu ve Hazırlanma Sürecinin Tanımlanması, 2010 - 2011
- Aktaş Ö., Çebi Y., Project Supported by Higher Education Institutions, A Rule-Based Approach to Large-Scale Turkish Corpus Development for Turkish Dialects, 2008 - 2009

## Scientific Refereeing

- Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, December 2023
- KOSGEB, ELİF DİKMETAŞ YARDAN, Turkey, December 2023
- KOSGEB, İSTECHSOFT YAZILIM BİLİŞİM BÜYÜK VERİ VE YAPAY ZEKA ÇÖZÜMLERİ LTD ŞTİ, Turkey, December 2023
- Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, August 2022
- KOSGEB, NE EKERSEN BİLİŞİM YAZILIM TARIM DANIŞMANLIK PAZARLAMA TİCARET VE ARGE ANONİM ŞİRKETİ, Turkey, July 2022
- Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, June 2022

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, July 2020

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, July 2020

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, National Scientific Refreed Journal, July 2020

İnönü Üniversitesi Eğitim Fakültesi Dergisi, National Scientific Refreed Journal, July 2020

Bilgisayar Bilimleri ve Mühendisliği Dergisi, National Scientific Refreed Journal, July 2020

Bilgisayar Bilimleri ve Mühendisliği Dergisi, National Scientific Refreed Journal, July 2020

## **Metrics**

Publication: 68

Citation (WoS): 63

Citation (Scopus): 138

H-Index (WoS): 5

H-Index (Scopus): 5

## **Congress and Symposium Activities**

1st International Conference on Engineering, Natural and Social Sciences (ICENSOS), Attendee, Konya, Turkey, 2022

15. International Scientific Research Congress (UBAK), Attendee, Ankara, Turkey, 2022

1st International Conference on Scientific and Academic Research (ICSAR), Attendee, Konya, Turkey, 2022

3. Uluslararası Sağlıkta Yapay Zeka Kongresi, Attendee, İzmir, Turkey, 2022

3rd International Conference on ICT for Development for Africa (ICT4DA), Attendee, Bahir Dar, Ethiopia, 2021

1. International Marmara Scientific Research and Innovation Congress, Attendee, İstanbul, Turkey, 2021

2nd International Mathematic, Architecture and Engineering Congress, Attendee, Rome, Italy, 2021

## **Artistic Activity**

AKTAŞ Ö., World Electro Mobility Conference, May 2017